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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/897,429	07/03/2001	Robert J. Hales	H0630-0003-P003	8337
64884 BERGMAN &	7590 08/01/200 SONG, LLP	EXAMINER		
P.O. BOX 4001	98	PROCTOR, JASON SCOTT		
CAMBRIDGE, MA 02140			ART UNIT	PAPER NUMBER
			2123	
			MAIL DATE	DELIVERY MODE
			08/01/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Occurrence	09/897,429	HALES, ROBERT J.			
Office Action Summary	Examiner	Art Unit			
	JASON PROCTOR	2123			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the co	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)⊠ Responsive to communication(s) filed on <u>15 Ju</u>	lv 2008				
	action is non-final.				
	/				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under L	parte Quayle, 1935 C.D. 11, 45	0.0.210.			
Disposition of Claims					
 4) Claim(s) 1,3-16 and 31-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-16 and 31-40 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some coll None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	(PTO-413) te atent Application				

DETAILED ACTION

Claims 1, 3-16, 19, and 31-35 were rejected in the Office Action entered on 15 January 2008.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 15 July 2008 has been entered.

The 15 July 2008 submission has amended claims 4 and 33; cancelled claim 19; and presented new claims 36-40. Claims 1, 3-16, and 31-40 are pending in this application.

Claims 1, 3-16, and 31-40 are rejected.

Priority

1. Applicant's claim for domestic priority under 35 U.S.C. § 119(e) is acknowledged. The Examiner thanks Applicants for clarifying where support for the claims is found.

Applicants have submitted (27 July 2005) that:

Support is believed to exist in the '303 and '040 applications for each of the now-pending claims. [...] Thus, it is believed that enabling support is found in the '303 application for claim 10, and for the same or similar reasons the '303 and '040 applications are believed to fully support the balance of the now-pending claims.

Applicants' arguments have established that the '303 and '040 application fully support the pending claims.

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Claim Interpretation

2. Regarding the phrase "substantially instantaneously identical" as recited by claim 13,

Applicants have submitted (27 July 2005) that:

One of skill in the art would readily appreciate that the meaning of the term "substantially instantaneously identical" reflects the context of the system in which the term is used. Thus for example where data is mirrored on two servers, as a practical matter, the same data is available to users of both servers on a

mirrored on two servers, as a practical matter, the same data is available to users of both servers on a timeframe that is otherwise compatible with system operation. As such, one of skill in the art would

understand the subject claim limitation without the expression of an absolute time span.

3. Regarding the phrase "detail drawing" as recited by claim 1 and others, the Examiner

provided an interpretation in the previous Office Action. In response, Applicants submit (28

February 2007) that:

In relation to the phrase "detail drawing," section 16.1 of provisional application 60/236,040 states that "[t]o create a new detail drawing... a dialog box will appear asking if you want to, 'Create a new detail

drawing?' You will then be prompted to name the detail drawing..." Applicant respectfully submits that the term "detail drawing" thus refers to a discrete entity that can be "separately identified." The detail

drawing is therefore not a functional equivalent of merely magnifying (zooming in on) an otherwise

existing entity.

Additionally, the claim language has been amended to read "a separately identified detail

drawing" (claim 1) and "a separately identified detailed layout" (claim 13). Applicants'

interpretation is acknowledged.

4. Regarding the phrase "markup lines" as recited by claim 21, Applicants submit (28)

February 2007) that "the term 'markup line' refers to a visual indication of a change proposed or

made to a plan record." The Examiner thanks Applicants for this clarification. Applicants'

interpretation is acknowledged.

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5. The previous rejection of claim 19 under 35 U.S.C. § 102(b) as being anticipated by

"CADDStar Version 5.0 Help Manual" and/or "CADDStar Version 3.81 Help Manual" is

withdrawn in response to the cancellation of claim 19.

Response to Arguments – 35 USC § 103

6. In response to the previous rejections of claims 1, 3-16, and 31-35 under 35 U.S.C. §

103(a) as being unpatentable over various prior art references in view of Kuczun, Applicants

argue primarily that the teachings of Kuczun do not constitute a "separately identified detail

drawing" as claimed (Remarks submitted on 15 July 2008, primarily page 12). Applicants'

remarks have been fully considered and found persuasive. Accordingly, the various previous

rejections of claims 1, 3-16, and 31-35 are withdrawn.

Claim 19 was not rejected using Kuczun, but claim 19 has been cancelled. The previous

rejection of claim 19 under 35 U.S.C. § 103(a) is therefore withdrawn.

As a result, all of the previous rejections under 35 U.S.C. § 103(a) have been

withdrawn.

New grounds of rejection have been entered below.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. § 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

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7. Claims 39-40 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

8. Claim 39 recites substantially the same invention as claim 1 with the additional limitation of "treating said network components represented within the integrated detail drawing as contiguous with information otherwise represented on the visible image" which renders the claim vague and indefinite. A method step of treating does appears neither to manipulate any network components, detail drawing, or information, nor to produce any result. The scope of this method step is unknown. It is unclear what disclosure in the prior art would anticipate this type of passive, abstract step, and if this claim issued in a patent, a practitioner in the art would be unable to determine what activity is or is not covered by the claim.

Further, *treating* two elements as "contiguous" appears to imply that the "network components" and the "information otherwise represented on the visible image" are not actually "contiguous." It is unclear what this limitation would mean, and it is unclear if Applicants intend to imply such a limitation.

9. Claim 40 recites a further limitation of the treating step, which "includes providing full connectivity for signal levels and design connections" which renders the claim vague and indefinite. Largely as a result of the indefiniteness of the parent claim, it is unclear what is meant by "providing full connectivity" between "network components" in an integrated detail drawing and "information otherwise represented in the visible image", where the components and information are apparently non-contiguous but are treated as being contiguous. There

appears to be specific claim language that these elements are <u>not connected</u> (i.e. in a separately identified detail drawing) but are <u>treated as being connected</u> ("contiguous") yet also have <u>full connectivity</u>. There appears to be missing elements or unclear claim language.

The Examiner has interpreted these claims as shown below in the rejections under 35 U.S.C. § 103(a). Clarification or correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

10. Claims 1, 3-6, and 36-40 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US Patent No. 6,499,006 to Rappaport et al., hereafter referred to as Rappaport, in view of US Patent No. 5,821,937 to Tonelli et al., hereafter referred to as Tonelli.

The Tonelli reference was made of record in the Information Disclosure Statement filed on 30 November 2001 and accordingly is not cited with this Office Action on a form PTO-892.

Regarding claim 1, Rappaport teaches a method for deploying a fiber optic communication network (column 1, lines 25-48) comprising:

Storing an attribute of an optical communication component in a catalog database entry (column 4, lines 46-50; column 6, lines 36-60) referred to as a computer parts database;

Associating the catalog database entry with a design profile (column 6, lines 40-44; column 8, lines 23-35);

Selecting and reading the attribute from the database entry (column 6, lines 40-44);

Associating the attribute with a planned deployment of a physical instance of the component (column 8, lines 23-35); and

Forming a visible image representing said planned deployment (column 4, lines 33-50).

Rappaport does not explicitly teach including a separately identified detail drawing in the visible image.

Tonelli teaches forming a visible image representing a planned deployment of a physical instance of a component, said visible image including a separately identified integrated detail drawing [(FIG. 31); "For example, devices and media connections may be grouped into collections (logical partitions) to simplify working with complex network designs. Physically, a collection is a design sheet. Multiple collections may be linked to each other via off-page connections between their corresponding design sheets. Each collection is represented as an icon when collapsed, and when the user double clicks the left mouse button on an icon, the design sheet corresponding to the icon is displayed in the application window. Referring to FIG. 31, the devices and media connections on each floor of an office building 326 are grouped into separate collections 320, 322, 324. The user imported a country map 328 and populated the country map with multiple building collections 326, 330, 332. The user may also import a world map and populate it with country collections (not shown). Design sheets are hierarchical." (column 15, lines 22-67)]

Rappaport and Tonelli are analogous art because both are drawn to network design tools.

It would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of Tonelli and Rappaport by incorporating the features shown in Tonelli FIG. 31 and described in Tonelli column 15 with the design tool taught by Rappaport. Motivation to combine the references is found in the express teachings of Tonelli, such as to design or maintain a complex network layout with the ability to view details down to the individual device ["An important aspect of designing and maintaining networks is being able to quickly assess the current network configuration down to the device configuration level. Such information is helpful in troubleshooting network problems and in updating a network system." (Tonelli, column 2, lines 16-22)].

Therefore it would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of Rappaport and Tonelli to arrive at the invention specified in claim 1.

Regarding claim 3, Rappaport teaches a computer-implemented method (column 4, lines 33-50) and recording associations in a computer database (column 6, lines 40-49).

Regarding claim 4, Rappaport does not explicitly teach physically deploying a physical instance of the component. However, Rappaport does teach a network design tool (column 5, lines 57-65; column 8, lines 23-35) and therefore it would have been obvious to a person of ordinary skill in the art at the time of Applicant's invention to physically deploy the network after it has been designed.

Regarding claims 5 and 6, Rappaport teaches identifying a geographic location for the network and displaying a graphical representation of the geographic location (column 4, lines 3-9; column 4, lines 33-38; column 8, lines 44-57).

Regarding claim 36, Rappaport teaches a method for deploying a fiber optic communication network (column 1, lines 25-48) comprising:

Storing an attribute of an optical communication component in a catalog database entry (column 4, lines 46-50; column 6, lines 36-60) referred to as a computer parts database;

Associating the catalog database entry with a design profile (column 6, lines 40-44; column 8, lines 23-35);

Selecting and reading the attribute from the database entry (column 6, lines 40-44);

Associating the attribute with a planned deployment of a physical instance of the component (column 8, lines 23-35); and

Forming a visible image representing said planned deployment (column 4, lines 33-50).

Rappaport does not explicitly teach including a separately identified detail drawing in the visible image and does not explicitly teach performing a system calculation as claimed.

Tonelli teaches forming a visible image representing a planned deployment of a physical instance of a component, said visible image including a separately identified integrated detail drawing [(FIG. 31); "For example, devices and media connections may be grouped into collections (logical partitions) to simplify working with complex network designs. Physically, a collection is a design sheet. Multiple collections may be linked to each other via off-page connections between their corresponding design sheets. Each collection is represented as an

icon when collapsed, and when the user double clicks the left mouse button on an icon, the design sheet corresponding to the icon is displayed in the application window. Referring to FIG. 31, the devices and media connections on each floor of an office building 326 are grouped into separate collections 320, 322, 324. The user imported a country map 328 and populated the country map with multiple building collections 326, 330, 332. The user may also import a world map and populate it with country collections (not shown). Design sheets are hierarchical." (column 15, lines 22-67)].

Tonelli teaches performing a system calculation considering small-scale features represented in the detail drawing and large-scale features otherwise represented in the visible image ["Network Audit Software" (column 18, line 11 – column 22, line 25) describes several "system calculations". The network components (in any of the hierarchical displays) are included in the system calculations. Alternatively, Tonelli teaches various steps of "validating" the network configuration, for example (column 17, lines 11-17)].

Rappaport and Tonelli are analogous art because both are drawn to network design tools.

It would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of Tonelli and Rappaport by incorporating the features shown in Tonelli FIG. 31 and described in Tonelli column 15 with the design tool taught by Rappaport. Motivation to combine the references is found in the express teachings of Tonelli, such as to design or maintain a complex network layout with the ability to view details down to the individual device ["An important aspect of designing and maintaining networks is being able to quickly assess the current network configuration down to the device configuration level. Such

information is helpful in troubleshooting network problems and in updating a network system." (Tonelli, column 2, lines 16-22)].

Therefore it would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of Rappaport and Tonelli to arrive at the invention specified in claim 36.

Regarding claims 37 and 38, Rappaport teaches a calculations portion adapted to calculate power and signal relationships within a communications network (column 7, lines 10-27, etc.).

Regarding claim 39, Rappaport teaches a method for deploying a fiber optic communication network (column 1, lines 25-48) comprising:

Storing an attribute of an optical communication component in a catalog database entry (column 4, lines 46-50; column 6, lines 36-60) referred to as a computer parts database;

Associating the catalog database entry with a design profile (column 6, lines 40-44; column 8, lines 23-35);

Selecting and reading the attribute from the database entry (column 6, lines 40-44);

Associating the attribute with a planned deployment of a physical instance of the component (column 8, lines 23-35); and

Forming a visible image representing said planned deployment (column 4, lines 33-50).

Rappaport does not explicitly teach including a separately identified detail drawing in the visible image and does not explicitly teach treating said network components represented within

the integrated detail drawing as contiguous with information otherwise represented on the visible image.

Tonelli teaches forming a visible image representing a planned deployment of a physical instance of a component, said visible image including a separately identified integrated detail drawing [(FIG. 31); "For example, devices and media connections may be grouped into collections (logical partitions) to simplify working with complex network designs. Physically, a collection is a design sheet. Multiple collections may be linked to each other via off-page connections between their corresponding design sheets. Each collection is represented as an icon when collapsed, and when the user double clicks the left mouse button on an icon, the design sheet corresponding to the icon is displayed in the application window. Referring to FIG. 31, the devices and media connections on each floor of an office building 326 are grouped into separate collections 320, 322, 324. The user imported a country map 328 and populated the country map with multiple building collections 326, 330, 332. The user may also import a world map and populate it with country collections (not shown). Design sheets are hierarchical." (column 15, lines 22-67)].

Tonelli teaches treating said network components represented within the integrated detail drawing as contiguous with information otherwise represented on the visible image (column 15, lines 22-67)].

Rappaport and Tonelli are analogous art because both are drawn to network design tools.

It would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of Tonelli and Rappaport by incorporating the features shown in Tonelli FIG. 31 and described in Tonelli column 15 with the design tool taught (Tonelli, column 2, lines 16-22)].

by Rappaport. Motivation to combine the references is found in the express teachings of Tonelli, such as to design or maintain a complex network layout with the ability to view details down to the individual device ["An important aspect of designing and maintaining networks is being able to quickly assess the current network configuration down to the device configuration level. Such information is helpful in troubleshooting network problems and in updating a network system."

Therefore it would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of Rappaport and Tonelli to arrive at the invention specified in claim 39.

Regarding claim 40, Tonelli teaches including providing full connectivity for signal levels and design connections (column 15, lines 22-67).

11. Claims 7-9, 12, and 31-35 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US Patent No. 6,499,006 to Rappaport in view of Tonelli as applied to claims 1 and 5 above, and further in view of US Patent No. 4,866,704 to Bergman.

Regarding claims 7-9, 12, and 31-35, Rappaport in view of Tonelli does not explicitly teach the fiber optic equipment recited by these claims.

Bergman teaches the fiber optic equipment recited by these claims (title, abstract, columns 1-2, etc.).

Bergman and Rappaport in view of Tonelli are analogous art because both are drawn to communications networks.

Therefore it would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of the prior art to arrive at the inventions specified in claims 7-9, 12, and 31-35 as expressly motivated by Bergman, such as to design a network for spacecraft environments ["This invention provides an asynchronous, high-speed, fiber optic local area network originally developed for tactical environments, such as military field communications systems, but having additional specific benefits for other environments such as spacecraft and the like." (column 3, lines 11-34)].

12. Claims 10-11 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US Patent No. 6,499,006 to Rappaport in view of "Network Tools and Tasks" by Tonelli as applied to claim 1 above, and further in view of US Patent No. 5,761,432 to Bergholm et al., hereafter referred to as Bergholm.

Regarding claims 10 and 11, Rappaport in view of Tonelli teaches the limitations of claim 1.

Rappaport does not expressly teach identification of network components with an owner or with a communication circuit.

Bergholm teaches a planned deployment including identification of an instance with an owner (column 2, lines 39-63; column 4, lines 13-24).

Bergholm and Rappaport in view of Tonelli are analogous art because both are directed to network design.

It would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of Bergholm with Rappaport in view of Tonelli

by incorporating the attributes described by Bergholm, including ownership of the network equipment, in the computer parts database of Rappaport. The motivation to do so is expressly provided by Bergholm, such as to apprise network builders of inventory information and designing links to implement orders (Bergholm, column 1, lines 55-67).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of Applicants' invention to combine the teachings of Bergholm with Rappaport and Tonelli to arrive at the invention specified in claims 10 and 11.

13. Claims 13, 14 and 16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over "Modelling Multiple View Of Design Objects In A Collaborative Cad Environment" by Rosenman in view of Rappaport, further in view of Tonelli.

Regarding claim 13, Rosenman teaches a first computer including a first memory storage device having application software encoded therein; a second computer, operatively connected to said first computer, having a second memory storage device adapted to record first project data; and a third computer, operatively connected to said second computer, having a third memory storage device adapted to record second project data, said first and second project data being substantially instantaneously identical (pages 21-23, "Computer-Supported Collaborative Design");

Said software including a catalog portion being adapted to receive data defining a plurality of communication network components (page 22, "Design Object Database System");

Said first data including a logical model (pages 21-23, "Computer-Supported Collaborative Design").

Rosenman does not explicitly teach the claimed "design profile portion," "calculations portion," or "detail drawing portion."

Rappaport teaches a design profile portion adapted to receive data defining a plurality of design rules related to logical design of a network ["Each component utilizes electromechanical information available from the parts list library that fully describes the component in terms of its physical operating characteristics (e.g., the noise figure, frequency, radiation characteristics, etc.). This information is directly utilized during the prediction of wireless system performance metrics." (column 6, lines 26-60)].

Rappaport teaches a calculations portion adapted to calculate power and signal relationships within a communications network (column 7, lines 10-27, etc.). Rappaport teaches a multiple dwelling unit (FIG. 3, etc.).

Rappaport does not explicitly teach the claimed "detail drawing portion".

Tonelli teaches an integrated detail drawing portion adapted to record a separately identified detailed layout of a network within a multiple dwelling unit [(FIG. 31); "For example, devices and media connections may be grouped into collections (logical partitions) to simplify working with complex network designs. Physically, a collection is a design sheet. Multiple collections may be linked to each other via off-page connections between their corresponding design sheets. Each collection is represented as an icon when collapsed, and when the user double clicks the left mouse button on an icon, the design sheet corresponding to the icon is displayed in the application window. Referring to FIG. 31, the devices and media connections on each floor of an office building 326 are grouped into separate collections 320, 322, 324. The user imported a country map 328 and populated the country map with multiple building

collections 326, 330, 332. The user may also import a world map and populate it with country

collections (not shown). Design sheets are hierarchical." (column 15, lines 22-67)]

Rosenman, Rappaport, and Tonelli are all analogous art because all are drawn to CAD.

Therefore, it would have been obvious to a person of ordinary skill in the art to combine

the teachings of Rappaport with Rosenman as expressly motivated by Rappaport, such as to

simplify the design task ["Using the present method, it is now possible to assess the performance

of a wireless communication system to a much higher level of precision than previously

possible... The design of wireless communication systems is often a very complex and arduous

task, with a considerable amount of effort required to simply analyze the results of predicted

performance." (column 5, liens 52-65)]. It would have been obvious to a person of ordinary

skill in the art to combine the teachings of Tonelli with Rosenman in view of Rappaport as

expressly motivated by Tonelli, such as to design or maintain a complex network layout with the

ability to view details down to the individual device ["An important aspect of designing and

maintaining networks is being able to quickly assess the current network configuration down to

the device configuration level. Such information is helpful in troubleshooting network problems

and in updating a network system." (Tonelli, column 2, lines 16-22)].

Therefore it would have been obvious to a person of ordinary skill in the art at the time of

Applicants' invention to combine the teachings of the prior art to arrive at the invention specified

in claim 13.

Regarding claim 14, Tonelli teaches that said communications network comprises an

optical fiber portion (FIG. 13a, "Fiber Optic Cable" and related disclosure).

Regarding claim 16, Rappaport teaches a software method for designing a network

comprising a wireless communication portion (column 5, lines 52-65).

Claim 15 are rejected under 35 U.S.C. § 103(a) as being unpatentable over

Rosenman in view of Rappaport in view of Tonelli as applied to claim 14, further in view of

US Patent No. 4,866,704 to Bergman.

Regarding claim 15, Rosenman in view of Rappaport, further in view of Tonelli does not

explicitly teach an optical fiber portion comprising an optical cable having a buffer with first and

second optical fibers, wherein the fibers have different nominal characteristics.

Bergman teaches a fiber optic network with buffers and different nominal characteristics

(title, abstract, columns 1-2, etc.)

Bergman and Rosenman in view of Rappaport, further in view of Tonelli are analogous

art because both are drawn to communications networks.

It would have been obvious to a person of ordinary skill in the art to combine the

teachings of the prior art to arrive at the invention specified in claims 14-15 as expressly

motivated by Bergman, such as to design a network for spacecraft environments ["This invention

provides an asynchronous, high-speed, fiber optic local area network originally developed for

tactical environments, such as military field communications systems, but having additional

specific benefits for other environments such as spacecraft and the like." (column 3, lines 11-

34)].

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14. Claims 1, 3-16, and 31-35 are rejected under 35 U.S.C. § 103(a) as being unpatentable over "CADDstar version 5.0 help manual" in view of US Patent No. 5,821,937 to Tonelli et al., hereafter referred to as Tonelli.

Applicants' remarks distinguish claims 1 and 13 from the "CADDstar version 5.0 help manual" by way of the "detail drawing" limitation.

Tonelli teaches a "separately identified detail drawing" [(FIG. 31); "For example, devices and media connections may be grouped into collections (logical partitions) to simplify working with complex network designs. Physically, a collection is a design sheet. Multiple collections may be linked to each other via off-page connections between their corresponding design sheets. Each collection is represented as an icon when collapsed, and when the user double clicks the left mouse button on an icon, the design sheet corresponding to the icon is displayed in the application window. Referring to FIG. 31, the devices and media connections on each floor of an office building 326 are grouped into separate collections 320, 322, 324. The user imported a country map 328 and populated the country map with multiple building collections 326, 330, 332. The user may also import a world map and populate it with country collections (not shown). Design sheets are hierarchical." (column 15, lines 22-67)]

"CADDstar version 5.0 Help Manual" and Tonelli are analogous art because both are drawn to CAD.

Therefore, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Tonelli with "CADDstar version 5.0 Help Manual" as expressly motivated by Tonelli, such as to design or maintain a complex network layout with the ability to view details down to the individual device ["An important aspect of designing and maintaining networks is

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being able to quickly assess the current network configuration down to the device configuration

level. Such information is helpful in troubleshooting network problems and in updating a

network system." (Tonelli, column 2, lines 16-22)].

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jason Proctor whose telephone number is (571) 272-3713. The

examiner can normally be reached on 8:30 am-4:30 pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Paul Rodriguez can be reached at (571) 272-3753. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application should be

directed to the TC 2100 Group receptionist: 571-272-2100. Information regarding the status of

an application may be obtained from the Patent Application Information Retrieval (PAIR)

system. Status information for published applications may be obtained from either Private PAIR

or Public PAIR. Status information for unpublished applications is available through Private

PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

/Jason Proctor/ Examiner

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